

1 **CLAIM AMENDMENTS**

2 **Listing of Claims:**

3 1. (Currently amended) A device for applying a liquid to a substrate surface, the device
4 comprising:

5 a first chamber for carrying the liquid;

6 a second chamber for carrying the liquid;

7 a first aperture in the first chamber for communicating liquid from the first chamber to the
8 substrate surface via a first conduit having outer sides of limited wettability to the liquid;

9 a second aperture in the second chamber for communicating liquid from the second chamber to
10 the substrate surface via a second conduit having outer sides of limited wettability to the liquid;

11 a body including a protrusion defined by the outer sides of the first and second conduits, wherein
12 the body comprises a plane inner surface surrounding the protrusion and a plane outer surface
13 parallel to, offset from, and surrounding the inner surface, the protrusion extending from the
14 inner surface and having an end coplanar with the outer surface, wherein the end of the
15 protrusion is wettable by the liquid, and wherein the end of the protrusion comprises a flow path
16 extending from the first aperture to the second aperture.

17 2. A device as claimed in claim 1, wherein the first and second conduits comprise inner
18 sides wettable by the liquid.

19 3. (Currently amended) A device as claimed in claim 1 ~~or~~ 2, wherein the inner surface forms a
20 peripheral recess surrounding the protrusion.

1 4. (Original) A device as claimed in claim 1, wherein the outer surface is of limited wettability to
2 the liquid.

3 5. (Original) A device as claimed in claim 1, wherein:

4 the first chamber has a first pressure for retaining the liquid when the flow path is remote from
5 the substrate surface;

6 the second chamber has a second pressure such that the difference between the first and second
7 pressures is oriented to promote flow of the liquid from the first chamber to the second chamber
8 via the flow path in response to the flow path being located proximal to the substrate surface and
9 the liquid in the device contacting the substrate surface; and,

10 the first and second pressures are such that the liquid is drawn towards at least the second
11 chamber in response to withdrawal of the flow path from the substrate surface.

12 6. (Original) A device as claimed in claim 5, wherein at least one of the first chamber and the
13 second chamber comprises a capillary network for applying pressure to the liquid.

14 7. (Currently amended) A device as claimed in claim 6, wherein ~~the~~ or each capillary network
15 comprises at least one of a plurality of parallel capillary members, a mesh, a porous material, and
16 a fibrous material.

17 8. (Currently amended) A device as claimed in claim 1 ~~any of claims 1 to 7~~, comprising a
18 plurality of first chambers each coupled to the flow path.

19 9. (Currently amended) A device as claimed in claim 1 ~~any of claims 1 to 8~~, comprising a
20 plurality of second chambers each coupled to the flow path.

- 1 10. (Currently amended) A device as claimed in claim 1 ~~any of claims 1 to 9~~ wherein the flow
2 path has one of a curved cross section and a rectangular cross section.
- 3 11. (Original) A device as claimed in claim 5, wherein the first and second pressures are such
4 that the liquid is drawn towards the first chamber and the second chamber in response to
5 withdrawal of the flow path from the substrate surface.
- 6 12. (Currently amended) A device as claimed in claim 1 ~~any of the preceding claims~~, wherein the
7 second aperture surrounds the first aperture.
- 8 13. (Currently amended) A device as claimed in claim 1 ~~being any preceding claim~~ of unitary
9 construction.
- 10 14. (Original) A device as claimed in claim 13, formed from any one of polymer, glass, silicon,
11 SU-8, photoresist, thermoplastic, ceramic, and metal.
- 12 15. (Currently amended) A device as claimed in claim 1 ~~being any claim preceding claim 13~~ of
13 layered construction.
- 14 16. (Original) A device as claimed in claim 15, wherein each layer is formed from one of
15 polymer, glass, silicon, SU-8, photoresist, thermoplastic, metal, and ceramics.
- 16 17. (Currently amended) An array of devices each as claimed in claim 1 ~~any preceding claim~~.
- 17 18. (Currently amended) A method for applying a liquid to a substrate surface, the method
18 comprising: locating a device as claimed in claim 1 ~~any of claims 1 to 12~~ proximal to the
19 substrate surface; supplying the liquid to the substrate surface via the device; flowing the liquid
20 from the first chamber to the second chamber via the flow path; and, retracting the device from
21 the substrate surface.

1 19. (Original) A method as claimed in claim 18, further comprising varying the flow of the liquid
2 from the first chamber to the second chamber during the supply of the liquid to the surface.

3 20. (Currently amended) A method as claimed in claim 18 ~~or 19~~, further comprising: prior to the
4 retracting, moving the device relative to the substrate surface with the liquid in the or each
5 aperture contacting with the substrate surface.

6 21. (Currently amended) A method for applying a liquid to a substrate surface, the method
7 comprising: locating a device as claimed in claim 8 ~~any of claims 8 to 14~~ proximal to the
8 substrate surface; supplying the liquid to the substrate surface via the device; moving the device
9 relative to the substrate surface with the liquid in the apertures contacting with the substrate
10 surface; and, retracting the device from the substrate surface.

11 22. (Original) A method for applying a liquid to a substrate surface, the method comprising:
12 locating an array of devices as claimed in claim 17 proximal to the substrate surface; supplying
13 the liquid to the substrate surface via the array; in each device of the array, flowing the liquid
14 from the first chamber to the second chamber via the flow path; moving the array relative to the
15 substrate surface with the liquid in each aperture contacting with the substrate surface; and,
16 retracting the array from the substrate surface.

17 23. (Original) A method as claimed in claim 22, further comprising, in at least one device of the
18 array, varying the flow of the liquid from the first chamber to the second chamber during the
19 supply of the liquid to the surface.

20 24. (Currently amended) A method as claimed in claim 22 ~~or claim 23~~, comprising orienting the
21 array relative to the substrate surface such that traces of the flows of liquid produced as the array
22 is moved relative to the substrate surface remain separate.

1 25. A method as claimed in claim 22 ~~or claim 23~~, comprising orienting the array relative to the
2 substrate surface such that traces of the flows of liquid produced as the array is moved relative to
3 the substrate surface overlap.

4 26. (Currently amended) A method as claimed in claim 22, ~~any of claims 22 to 25~~, further
5 comprising, prior to locating, loading a similar liquid into each device of the array.

6 27. A method as claimed in claim 22, ~~any of claims 22 to 25~~, further comprising, prior to
7 locating, loading different liquids into each device of the array.